



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/743,450

12/19/2003

Oleg V. Kozyuk

24961-80

8151

21130

7590

08/02/2007

BENESCH, FRIEDLANDER, COPLAN & ARONOFF LLP

ATTN: IP DEPARTMENT DOCKET CLERK

2300 BP TOWER

200 PUBLIC SQUARE

CLEVELAND, OH 44114

EXAMINER

BECKER, DREW E

ART UNIT

PAPER NUMBER

1761

MAIL DATE

DELIVERY MODE

08/02/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/743,450	<b>Applicant(s)</b> KOZYUK, OLEG V.	
	<b>Examiner</b> Drew E. Becker	<b>Art Unit</b> 1761	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 09 May 2007.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) 20-25 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |   |   |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                  | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Election/Restrictions***

1. Applicant's election of group II in the reply filed on 5/9/07 is acknowledged.

Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 20-25 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected group, there being no allowable generic or linking claim.

### ***Claim Rejections - 35 USC § 112***

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3. Claims 1-8 and 17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

4. Claim 1 recites the limitation "the homogenized fluid product fluid product" in the final line. There is insufficient antecedent basis for this limitation in the claim.

5. Claim 17 recites a "sufficient distance". It is not clear what distance would be considered "sufficient".

### ***Claim Rejections - 35 USC § 102***

Art Unit: 1761

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

7. Claim 19 is rejected under 35 U.S.C. 102(b) as being anticipated by Gentner [Pat. No. 5,846,583].

Gentner teaches a method for treating a homogenized fluid by introducing two streams of homogenized fluid into a passageway, wherein one stream has a lower temperature than the other (Figure 1, #10, 46).

8. Claims 1-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Bertocchi [Pat. No. 5,993,876].

Bertocchi teaches a method for heat treating a homogenized puree fluid by feeding product ingredients to a strainer assembly (Figure 2, #4), feeding the stream of fluid to a local constriction with a downstream high-shear mixing zone (Figures 2-3, #9), introducing an amount of the fluid at a second temperature into the high-shear zone (Figure 3, #10), the first fluid having a temperature of 95°C upstream of the mixing zone and a temperature of 80°C after the mixing zone (column 5, line 19), the two fluids inherently having the same concentration, a volumetric pump which acts as supply

Art Unit: 1761

source for the second fluid (Figure 2, #5), and the first fluid splitting into separate streams in order to flow around the constriction (Figure 3, #10).

9. Claims 1-19 are rejected under 35 U.S.C. 102(e) as being anticipated by paquin et al [Pat. No. 6,511,695].

Paquin et al teach a method for treating a temperature sensitive fluid by feeding a stream of through a local constriction in the form of a high pressure homogenizer to produce high shear mixing (column 4, lines 1-6), cooling the homogenized fluid (column 4, lines 46-49), recirculating the fluid through the system up to 50 times (column 4, line 11), the fluid including milk, egg, or vegetable proteins (column 3, line 57), a cooling device in the form of refrigerated water treatment (column 4, line 48), and a temperature range of 20-80°C (column 3, line 48).


10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kozyuk [Pat. No. 6,802,639], Karlsson et al [Pat. No. 5,492,409], Lindquist [Pat. No. 6,737,096], Huber et al [Pat. No. 6,588,926], and Cook et al [Pat. No. 4,533,254] teach methods of mixing fluids.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Drew E. Becker whose telephone number is 571-272-1396. The examiner can normally be reached on Mon.-Fri. 8am to 4:30pm.

Art Unit: 1761

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Keith Hendricks can be reached on 571-272-1401. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
DREW BECKER  
PRIMARY EXAMINER  
7-31-07